



WORLD OF MOTORSPORT ZA

P.O. Box 12387, Brakpan North, 1545
18 Main Reef Rd Brakpan (on the premises of Rock Raceway)
Tel: 011-740 1206 / 740 8315 Fax: 086 508 2388 email: womza@telkomsa.net
www.womzasa.co.za

2016- 2017 - 1660 MODIFIED SALOON CLASS (DIRT) SS

The rule of what is not specifically allowed is not permitted; refer to WOMZA Dirt Oval Technical Consultants for further clarity on the matter.

Introduction:

Competitor age restriction: 1660 MODIFIED SALOON CLASS

- Minimum age 13 years old for club level entries only;
- Competitor's minimum age - 14 years old are permitted to enter into this class at regional and national level with the approval of their promoter and local TC Representative.
- Reference to length and widths in the regulations shall be defined as, length, measure in the direction of, from the front of the vehicle to the back and width being measured from left to right of the vehicle;

SS1 ELIGIBILITY OF VEHICLE AND BODIES:

- 1.1 Any saloon car body, LDV, station wagons, Panel vans are permitted;
- 1.1.1 LDV's refer to Index/Cross Reference as to which vehicles are permitted;
- 1.2 Any saloon body replicas may be constructed as a space frame maybe constructed as a space frame with a panel being in solid shape, patchwork pieces making up a panel will not be permitted;
- 1.3 The body utilized shall have been powered by a three or four cylinder piston driven engine;
- 1.3.1 Front and rear wheel drive permitted;
- 1.4 The use of an engine originating from another model, manufactured by the same manufacturer or the use of an engine from another manufacturer shall be permitted, e.g. (Nissan in a Ford Escort body) provided that such engine complies to SS 7;
- 1.5 No age restriction to model of vehicle being utilized;
- 1.6 Silhouette of all doors, must remain standard and the driver door may not be cut away for easy access;

SS2 SAFETY:

- 2.1 Limited contact racing as described;
- 2.1.1 Limited contact shall mean nothing more than the coming together of vehicles caused by close racing, minimal shunting and nudging shall be permitted due to close racing;
- 2.1.2 Upon contact being made unintentionally or accidentally, the following vehicle shall leave enough space for the leading vehicle to regain its position on the track;
- 2.1.3 In limited contact, the intention is to permit minimal contact but the contact shall not be forceful enough to cause the lead vehicle to be placed in a different race line involuntarily;
- 2.2 Ensure that all joints in construction are welded properly- minimum of 75%;
- 2.3 Sump, gearbox and differential plugs are to be wired securely;
- 2.4 The installation of Fire extinguishers shall remain optional, however, it is highly recommended to have fire extinguishers fitted in the competitor compartment. All installations have to be well secured thus prevent the extinguisher from dislodging upon an impact;



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2.5	No in car adjustments permitted, with the exception of brake balancing;
SS3	<u>BUMPERS:</u>
3.1	No external steel bumpers permitted, refer to internal bumper regulation;
3.2	Internal bumpers
3.2.1	Internal bumpers – piping material used shall have a maximum outside diameter of 38mm and a maximum wall thickness of 2mm;
3.2.2	The internal bumper shall be shaped in accordance of the vehicle’s front silhouette;
3.2.3	Additional radiator protection may be installed internally with no more than 4 mounting points;
3.2.4	Vehicles that are manufactured with steel bumpers must be replaced with plastic or fibre glass bumpers, fitted with a single 38mm x 2mm pipe inside shaped according to the bumper;
3.3	Only plastic or fibre glass bumpers not exceeding 3mm thick may be fitted externally for cosmetic purposes only, no steel stiffeners permitted;
3.4	No piping to protrude outside of bodywork;
SS4	<u>BRAKES:</u>
4.1	Single or twin pot brake calipers may be used on the front or rear wheels;
4.1.1	Brake calipers have to originate from production road going vehicles;
4.2	Only single or twin pot brake calipers may be used to replace drum brakes on the rear wheels;
4.3	No ABS or any other electronic driving aids is permitted;
SS5	<u>CAR CONSTRUCTION:</u>
5.1	Front wheel drive cars may be converted to rear wheel drive cars and vice versa;
5.2	Competitors who so wish to convert rear wheel to front wheel and vice versa, shall contact the Womza TC’s for inspection and upon their approval the change will be noted in the scrutiny book;
5.3	Four wheel drive vehicles not permitted;
SS6	<u>DIMENSION AND WEIGHTS:</u>
6.1	All four wheels of the vehicle must fit within the body of the vehicle, which in turn must comply with the maximum dimensions of the vehicles.
6.2	Maximum vehicle length permitted is 5000mm. (5m)
6.3	Maximum vehicle width permitted is 2000mm. (2m)
6.4	Weight – The vehicle may be weighed anytime and must comply to a minimum weight of 800kg including driver, but excluding weight of fire extinguishers and fluid free;
6.5	LDV maximum 850kg carrying capacity, the cab loading bin and chassis must be one unit as per manufacturer – LDV Makes and models to be specified;
SS7	<u>ENGINE:</u>
7.1	Engines, blocks and cylinder head utilized will only be permitted, if more than 500 units were sold of the vehicle from which it originated in South Africa; Engines, blocks and cylinder head utilized will only be permitted if more than 5000 units were sold in the world from which it originated;
7.2	The use of the Nissan A15 engine is specifically permitted, subject to all other limitations;
7.3	The use of an engine originating from another model, manufactured by the same manufacturer or the use of an engine from another manufacturer shall be permitted, provided that that engine



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complies with the criteria as set out above, e.g. (Nissan 1200 can be replaced with a Nissan 1500 or a Nissan engine may be replaced with a Ford engine.);

- 7.4 The engine shall have no more than 4 cylinders with no more than 2 valves per cylinder
- 7.4.1 1450CC – 16Valve permitted – no tolerance
- 7.4.2 1550cc – 12 valve permitted – no tolerance
- 7.4.3 1660cc – 8 valve permitted – no tolerance
- 7.5 Engines may be solid mounted;
- 7.6 After market fuel management systems permitted;
- 7.7 Only the original intake manifold and induction system may be used;
- 7.8 Throttle bodies are not permitted;
- 7.9 Air cleaners are free;
- 7.10 The rear face of the engine is where the bell housing and engine meet;
- 7.11 The rear face will not be more than 600mm back from the centre line of the front wheels;
- 7.12 Front wheel drive engines to remain in the original position;
- 7.13 Removal of alternators or charging systems is permitted;
- 7.14 Aftermarket pistons and rods permitted for example, Arias pistons, Eagle Rods, etc;
- 7.15 **Dry Sump permitted.**

SS8 **EXHAUSTS:**

- 8.1 Branches permitted;
- 8.2 Exhausts and silencer boxes mandatory and must comply to prescribed noise levels;
- 8.3 Maximum decibels 108, measured 1metre away at 5000rpm;

SS9 **FUEL, FUEL MANAGEMENT AND CARBURETION:**

- 9.1 Methanol, avgas, racing and pump fuel permitted;
- 9.1.1 Performance enhancing additives permitted;
- 9.2 Methanol lubricants may be used;
- 9.3 Maximum 2x40mm side draft or down draft carburetion;
- 9.3.1 Choke tubes 36mm maximum and shall measure as stipulated;
- 9.3.2 It shall not exceed 36mm if measured at any point across diameter;

SS10 **STEERING AND SUSPENSION:**

- 10.1 Steering racks and steering boxes, or quick ratio versions thereof, power steering from production vehicles are all permitted;
- 10.2 Suspension designs are free;
- 10.3 Rose joints are permitted;
- 10.4 2,3,4,5 and 6 link rear suspension permitted;
- 10.5 Spring adjustments are permitted;
- 10.6 Only freely available over the counter shock absorbers for example Armstrong, Monroe, Gabriel, shall be permitted, it follows no competition shocks will be allowed, only standard shocks;
- 10.7 Gas shocks permitted within this range;

SS11 **TRANSMISSION:**

- 11.1 Differentials utilized will only be permitted if more than 500 units were sold of the vehicle from



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which it originated within South Africa;

- 11.2 Gear ratios are free;
- 11.3 Diff ratios are free;
- 11.4 Only standard differentials and gearboxes are permitted;
- 11.5 Locked differentials are permitted;
- 11.6 Limited slip differential are not permitted;

SS12 WHEELS AND TYRES:

- 12.1 Normal, road legal tyres new or re-tread permitted;
- 12.2 Tyres must be freely available from any tyre dealer;
- 12.3 Tyres may not bare the inscription “not for highway use, for racing purposes only”;
- 12.4 Under no circumstances may any names or sizes be buffed off from the tyre walls;
- 12.5 Rally tyres are not permitted;
- 12.6 No purpose built or manufactured race tyres are permitted, which include rally tyres;
- 12.7 The regulation of purpose built or manufacturing of tyre shall include NO grooving;
- 12.8 Tyres & rims 13/14 or 15inch x8J with a maximum width of 205 are permitted;
- 12.9 All tyres must be presented at scrutineering;
- 12.10 **The use of two bead lock rims is permitted;**

SS13 WINGS:

- 13.1 Wings are permitted, / optional;
- 13.2 Wings may not exceed the body width or exceed past the rear of the vehicle;
- 13.3 It follows that the wings shall in all instances, not protrude past the body of the vehicle;
Wing end plates to be a maximum of 500mm x 500mm;
- 13.4 Vertical plates permitted shall not exceed 4 x vertical plates;
- 13.5 The horizontal vane cannot exceed 500mm in length;
- 13.6 Wing to be mounted from “B” pillar backwards;
- 13.7 Height of wing should be no higher than 300mm from the highest point of the roof to the highest part of the vane;

NB: 13.2 – the rule is determined as follows: Should the vehicle park flush next to a wall, the wing may not be wider than the widest point of the vehicle / if the vehicle is backed up against the wall the wing and rear bumper shall be in line, or if a plumb line is dropped the wing shall not hang past the bumper being the widest rear most point – these being maximum requirement.

1660 MODIFIED DIRT – READY REFERENCE

	Description	REG. NO	Permitted	Not Permitted
1	Mechanical fuel injection.		X	
2	No aftermarket roller rockers			X
3	Altered rocker ratios not permitted			X
4	Aluminum fly wheel		X	



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5	Electric water pump PERMITTED		X	
6	Electric fuel pump		X	
7	Pulley sizes/ratio		X	
8	Competition/performance piston and rings		X	
9	Competition/performance Conrods		X	
10	Competition/performance Crankshaft		X	
11	Any compression ratio		X	
12	Any bore and stroke ratio (1660cc maximum)		X	
13	Competition Valves		X	
14	Modified Tappet covers		X	
15	sump volume and design		X	
16	Camshaft profiling		X	
17	Fuel pressure regulator		X	
18	Weber and Dell' orto carb parts interchangeable		X	
19	Clutch Plate – Button clutch plates		X	
20	Pressure plate ANY (eg Tilton)		X	
21	Aftermarket ignition systems		X	
22	Branches		X	
23	Altered camshaft drive			X
24	Dry sump		X	
25	Forced induction (turbo - supercharger)			X
26	Throttle bodies			X
27	Wish bone suspension front		X	
28	Independent rear suspension		X	
29	2-3-4-5-6 link suspension		X	
30	Locked diff.		X	
31	Limited slip diff.			X
32	Front wheel drive space frame.		X	
33	Induction and ram tubes.		X	
34	Air boxes.		x	
35	Station wagon. and panel vans		X	
36	LDV Apply for Makes and Models not listed Nissan 1400 Nissan NP200 Toyota 1200 Ford Bantam Mazda Rustler Proton Arena Fiat 128 VW Golf Caddy Opel Corsa		X	
37	Single or twin caliper per wheel maximum 4 calipers per vehicle		X	



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38	Single shock per wheel, maximum 4shocks per vehicle		X	
39	Homemade Steering mechanism			X
40	Wings not to be adjusted while driving, can be adjusted in pits			
41	Alternators or Charging systems		X	
42	Vernier pulleys allowed		X	